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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/828,163	04/09/2001	Ichirou Miyagawa	Q63607	6555	
7590 09/19/2005			EXAMINER		
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC			РНАМ, НАІ СНІ		
2100 Pennsylva Washington, D	nia Avenue, N.W. C. 20037-3213		ART UNIT	PAPER NUMBER	
washington, D	0 20037 5215		2861		
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DATE MAILED: 09/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)		
	09/828,163	MIYAGAWA,	MIYAGAWA, ICHIROU	
Office Action Summary	Examiner	Art Unit		
•	Hai C. Pham	2861		
The MAILING DATE of this communication Period for Reply	appears on the cover sheet	with the correspondenc	e address	
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING. - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNER 1.136(a). In no event, however, may and the control of th	IICATION. a reply be timely filed ONTHS from the mailing date of ABANDONED (35 U.S.C. § 133	his communication.	
Status				
1) Responsive to communication(s) filed on 3	30 June 2005.	•		
· · · · ·	This action is non-final.			
3) Since this application is in condition for all closed in accordance with the practice und			the merits is	
Disposition of Claims				
4) ☐ Claim(s) 1-4,6-12 and 14-16 is/are pending 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) 1-4 and 6-8 is/are allowed. 6) ☐ Claim(s) 9-12, 14-16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction a	ndrawn from consideration.	o		
Application Papers		•		
9) The specification is objected to by the Example 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the continuous The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abey orrection is required if the drawing	ance. See 37 CFR 1.85(ng(s) is objected to. See 3	37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	ments have been received. ments have been received in priority documents have bee ureau (PCT Rule 17.2(a)).	Application Noen received in this Natio		
Attachment(s)		•		
1) Notice of References Cited (PTO-892)		v Summary (PTO-413)		
 Notice of Draftsperson's Patent Drawing Review (PTO-94t Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 	· · · · · · · · · · · · · · · · · · ·	o(s)/Mail Date f Informal Patent Application	(PTO-152)	

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 9-12 and 14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Creutzmann et al. (U.S. 4,780,731) in view of Ushirozawa (U.S. 6,452,953).

Creutzmann et al. discloses an exposure recording apparatus (Fig. 1) comprising amount-of-light detecting means (photoelement FE) movable into and out of a beam path of the light beams (the photoelement FE being moved along the main scanning direction to and being inserted in and out of the optical path so as to face the respective LED elements), for detecting amounts of light of the light beams emitted from said light sources (the sensor being used to measure the light quantity of each of the LEDs), a moving mechanism (electric motor M) for moving said amount-of-light detecting means movable into and out of said beam path, and amount-of-light adjusting means for adjusting the amounts of light of the light beams emitted from said light sources in order to equalize the amounts of light of the light beams detected by said amount-of-light detecting means (col. 2, lines 20-28), a temperature sensor (TF) provided on the carrier supporting the LED elements so as to detect and correct the light amount based on the

detected operating temperature of the LEDs and a table correction for correcting the

amount of light based on the detected temperature.

Creutzmann et al. fails to teach the temperature sensor sensing the temperature of each individual LED element and the temperature regulating means.

Ushirozawa discloses a light source unit comprising a plurality of laser diodes (2), wherein each laser diode has its own temperature sensor (thermistor 4) for detecting the particular temperature, and its own temperature regulating means (Peltier device 3) to precisely control the temperature of the LD in order to stabilize the wavelength of the signal light at a predetermined value.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to provide a temperature detecting means and a temperature adjusting means to each of the light emitting elements of Creutzmann et al. as taught by Ushirozawa. The motivation for doing so would have been to be able accurately control both the temperature and the light amount emitted from each individual light emitting element so as to stabilize the wavelength of the signal light at a predetermined value as suggested by Ushirozawa at col. 1, lines 7-36.

Creutzmann et al. further teaches:

- The temperature versus amount of light table (memory SP),
- Controlling only those light sources, which correspond to regions where said

 amount-of-light detecting means are inserted, to emit the light beams (col. 4,
 lines 35-55).

Application/Control Number: 09/828,163 Page 4

Art Unit: 2861

Allowable Subject Matter

3. Claims 1-4 and 6-8 are allowed.

4. The following is an examiner's statement of reasons for allowance: claim 1 is patentable over the prior art patents and printed publications because of the specific amount-of-light detecting means moving mechanism, which comprises a first moving means for moving the amount-of-light detecting means movable into and out of the beam path of each individual light source and a second moving means for moving the amount-of-light detecting means in the auxiliary scanning direction used in the exposure recording apparatus, which has a plurality of light sources arrayed in the auxiliary direction such that the amount of light emitted by the plural light sources is equalized. The combined limitations as claimed are not taught by the prior art of record considered alone or in combination.

Claims 2-4 and 6-8 are allowable because they are directly /indirectly dependent from claim 1 above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 09/828,163 Page 5

Art Unit: 2861

Response to Arguments

5. Applicant's arguments with respect to claims 9-12 and 14-16 have been considered but are moot in view of the new grounds of rejection as presented in this Office action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai C. Pham whose telephone number is (571) 272-2260. The examiner can normally be reached on M-F 8:30AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on (571) 272-1934. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HAI PHAM
PRIMARY EXAMINER

Hai chi Pham

September 15, 2005